WIX1002 Fundamentals of Programming
Tutorial 7 File Input and Output

1. Write statements for each of the following
   a. Store ten random integers within 0 to 1000 to a text file name integer.txt.
   b. Read from the text file generated in a. Display all the integer and the largest integer.
   c. Store ten random integers within 0 to 1000 to a binary file name integer.dat.
   d. Read from the binary file generated in a c. Display the all the integer and the average.

2. Correct the error for the following statements.
   a. PrintWriter   out   =   new   PrintWriter(new   FileOutputStream ("d:\data\matrix.txt"));
   b.
```
try {
  PrintWriter out = new PrintWriter(new FileOutputStream("data.txt"));
  out.close();
} catch (FileNotFoundException e) {
  System.out.println("Problem with file output");
}
```

   c.
```
int num;
Scanner a = new Scanner(new FileInputStream("data.dat"));
num = a.readInt();
a.close();
```

   d.
```
ObjectOutputStream     o     =     new     ObjectOutputStream     (new
FileOutputStream("data.dat"));
o.print('A');
o.close();
```

3. Write a program that convert a sentence into binary number (ASCII code 8 bit) and store it in a text file named data.txt. Then, read from the text file and display the sentence.